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	Application No.	. Applicant(s)	.,
Notice of Allowability	09/992,474	PARK ET AL.	
	Examiner	Art Unit	
	Erik Kielin	2813	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED () or other appropriate commits (IGHTS). This application is	in this application. If not include nunication will be mailed in due o	d course. THIS
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	<u>17 March 2005</u> .		
2. The allowed claim(s) is/are <u>1,2,4-9 and 14-20</u> .			
3. \boxtimes The drawings filed on <u>25 August 2004</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 4. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patterns application (PTO-152) which giv 6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR reach sheet. Replacement sheet(s) should be labeled as such in the deposit of the proper No./Mail Paper No./Mail Pape	e been received. e been received in Application of this communication to fill MENT of this application. Initted. Note the attached EX res reason(s) why the oath of states be submitted. Son's Patent Drawing Reviews Amendment / Comment of the header according to 37 Cosit of BIOLOGICAL MAT	on No ed in this national stage application of the drawings in the front (not the FR 1.121(d). TERIAL must be submitted. Noted in the Submitted. Note of the drawings in the submitted.	uirements OTICE OF
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 3/17/2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview S Paper No 08), 7. ☐ Examiner's	nformal Patent Application (PTC Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allow	·

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DETAILED ACTION

This action responds to the Amendment filed 17 March 2005.

Allowable Subject Matter

- 1. Claims 1, 2, 4-8, and 9, 14, and 15-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art does not teach or suggest, in combination with the other claimed limitations, that the liquid crystal is vertically aligned in the absence of an electric field and that the "wherein a voltage value of a first gray (called "V_{OFF}") representing the darkest state applied between the pixel electrode and the common electrode is within a voltage range for yielding a quotient greater than or equal to about 0.8 and less than about 1 for all viewing angles when a contrast ratio at the voltage value is divided by a contrast ratio when the voltage applied between the pixel electrode and the common electrode is zero." The ratio of Hirose, by contrast, would include a ratio of infinity. Claims 2, and 4-8 depend from claim 1 and are therefore allowable.

Regarding claims 9 and 15, the prior art does not teach or suggest, in combination with the other claimed limitations, that the liquid crystal is vertically aligned in the absence of an electric field, as argued by Applicant on pages 15 and 16 of the Response filed 17 March 2005. Claims 14 and 16-20 depend from claims 9 and 15 and are therefore allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Erik Kielin whose telephone number is 571-272-1693. The

examiner can normally be reached from 9:00 - 19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erik Kielin

Primary Examiner

May 21, 2005